

In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD		STORAGE TEMPERATURE RANGE		-10 °C TO 60 °C (2)		
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C (1)		OPERATING HUMIDITY RANGE		
	VOLTAGE	30 V AC		95 % RH MAX.		
	CURRENT	0.3 A		(NO DEW CONDENSATION IS PERMITTED)		
SPECIFICATIONS						
ITEM	TEST METHOD	REQUIREMENTS	Q/T	A/T		
<b>CONSTRUCTION</b>						
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X		
MARKING	CONFIRMED VISUALLY.		X	X		
<b>ELECTRIC CHARACTERISTICS</b>						
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	100 mΩ MAX.	X			
INSULATION RESISTANCE	100 V DC	50 MΩ MIN.	X			
VOLTAGE PROOF	100 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X			
<b>MECHANICAL CHARACTERISTICS</b>						
INSERTION AND WITHDRAWAL FORCE						
△1			PIN	INSERTION FORCE (MAX)	WITHDRAWAL FORCE (MIN)	
				24	49.6N	4.96 N
				40	56 N	5.6 N
				60	64 N	6.4 N
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRactions.	① CONTACT RESISTANCE: 120 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X			
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE : 0.75 mm, 10 CYCLES IN 3 AXIAL DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs MIN. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X			
SHOCK	490 ms <sup>2</sup> , DURATION OF PULSE 11 ms FOR 3 TIMES IN 3 BOTH AXIAL DIRECTIONS.		X			
<b>ENVIRONMENTAL CHARACTERISTICS</b>						
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ~ 95%, 96 hrs.	① CONTACT RESISTANCE: 120 mΩ MAX. ② INSULATION RESISTANCE: 25 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X			
RAPID CHANGE OF TEMPERATURE	△1	TEMPERATURE -55→+15~+35→+85→+15~+35°C TIME 30 → 2~3 → 30 → 2~3 min. 5 CYCLES.	① CONTACT RESISTANCE: 120 mΩ MAX. ② INSULATION RESISTANCE: 50 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X		
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 hrs.	NO HEAVY CORROSION.	X			
SULPHUR DIOXIDE	EXPOSED IN 25 PPM FOR 96 hrs. (TEST STANDARD: JIS C 0090)		X			
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING : 250 °C MAX, : 220 °C MIN, FOR 60 sec. 2) SOLDERING IRONS : 360 °C, FOR 5 sec.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X			
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 240°C, FOR IMMERSION DURATION, 3 sec.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95% OF THE SURFACE BEING IMMERSSED.	X			
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE		
△1	2	DIS-F-006120	TS. 00N0	HT. YAMAGUCHI	12.03.26	
<b>REMARK</b> (1) TEMPERATURE RISE INCLUDED WHEN ENERGIZED. (2) THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.						
Unless otherwise specified, refer to JIS C 5402.						
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC4-156244-00			
<b>HRS</b>		SPECIFICATION SHEET		PART NO.	FX12B-*P-0.4SV	
		HIROSE ELECTRIC CO., LTD.		CODE NO.		
				△1	1/1	